



## REDUCTION OF GHG EMISSION THROUGH PROMOTION OF COMMERCIAL BIOGAS PLANTS

**NEWSLETTER ISSUE 05 | DECEMBER 2018**



### **Welcome to the 5<sup>th</sup> issue of Biogas Project Newsletter!**

In this issue, we highlight the major activities which mainly aim at demonstrating the commercial biogas technology at the participating farms and strengthening the capacity of BTIC (Biogas Technology and Information Center). Here are the topics:

- Supporting tendering process of Biogas plant equipment for the participating farms
- The visit to initially assess the potential of farm for biogas power plant development
- Supporting the Biogas research facility to build BTIC's capacity
- Inception meeting to kick-off activities with BTIC
- Upcoming activities

## Supporting tendering process of biogas plant equipment for participating farms



With support of international biogas expert, The BTIC has provided Engineering, Procurement and Construction Management (EPCM) works to the farms. BTIC has contacted and reached out to 24 companies to solicit their interest for bidding to supply biogas gensets to 3 participating farm owners who has expressed their interest in installation of biogas power plant as well as in improvement of their existing plant.

After technical and financial evaluation of tendering, 3 suppliers have been shortlisted for further discussion with participating farms. All 3 farm owners selected one supplier

to supply the biogas plants equipment. The high investment cost has posted the major challenge to the farms to immediately decide to proceed with the investment despite it is found financially sound and partially provided financial support by the project. This has resulted in delaying the demonstration of the 3 pilot sites.



## The visit to initially assess the potential of farm for biogas power plant development



Through cooperation with Rural Development Bank (RDB), the mission team visited a piggery farm owned by Mr. Mak Sokhom. The farm is located at Praek Kragh Village, Samaki Commune, Prey Nob District, Sihanoukville Province.

The farm received loan from RDB through project “Financing Agricultural Contract Farming Linkage on Pig”, which consists of 3 parties involvement including RDB as financing provider, CP company as input supplier as well as buyer, and farmer, Mr. Mak Sokhom as producer. The main objective of the project is to ensure better access to market, finance and quality of pig. It is in pilot stage starting from 2016 until 2023. The project’s target beneficiary is pig producer.

This farm was established a few years ago, with 15 (open) barns. Each barn can accommodate 700 pigs. It fattens pigs under contract with CP applying rotating cycle in which each time just one barn is emptied. It means that there is no all-in, all-out system practiced. Currently, the farm has total 1,0500 pigs. The owner has 4 different piggery farms located in different locations. Accordingly, the owner owns 25 barns of fattening pigs under contract with CP Cambodia company.

The farm holds great potential for commercial biogas power plant. The farm will be contacted for full feasibility study in 2nd cycle starting in 2019.

## Supporting the biogas research facility to build BTIC's capacity



A first unit of test digester was constructed by BTIC under the supervision of a Biogas International Expert. The test digester will serve the research purposes which are related to Biogas / biomethane production potential test, internal and external gas treatment to remove H<sub>2</sub>S, gas utilization in generator and stove and effluent management test. The results of the research will be used to build technical knowledge of the members of the center in the biogas related sector. At the same time, the results will be disseminated to the public in order to raise awareness of the sectors among them.



## Inception meeting to kick-off activities with BTIC



An inception meeting led by Mr. Jossy Thomas, the project manager, was held during his visit in the country from 11<sup>th</sup> to 13<sup>th</sup> December. The meeting was intended to guide the members of the BTIC center on their expected roles in order to efficiently utilize the fund to achieve their objectives of the activities. At the meeting, the coordinator of the center, Mr. Lor Lytour presented initial business plan as well as the activities work-plan from 2019 to 2020. The plan sketched out the overall activities which the center aims to achieve in order to strengthen themselves to become more capable in biogas technologies, thus to be able to provide comprehensive services to farms. The project manager praised the initiative, however, he emphasized on the importance of the practical side of the business plan as it should be time-bound with clear role and responsibility of the team.


## Related videos



Design and construction of a test biogas digester for research purposes located at BTIC.

## Upcoming activities:

- Commercial biogas systems in three farms are to be installed in Q1 2019 with support of BTIC who will supervise procurement management.
- 3rd Project Steering Committee meeting to be organized in Q1 2019.
- Research activities to be carried out by selected students in Q2 2019.
- Training on development of business case-study to be organized in Q2 2019.
- Regional Workshop to urge the interest of the commercial farms to participate in the project and to disseminate the presence of BTIC and its services.

 [Forward to Friend](#)

*For further information:*

**Mr. Narin Sok**, UNIDO Country Representative  
Address: Phnom Penh Center, Building " A", Room 611, 6th floor  
Corner Sihanouk Blvd (St. 274) & Sothearos Blvd  
Sangkat Tonle Bassac, Khan Chamkarmon  
Phnom Penh, Cambodia  
Email: [office.cambodia@unido.org](mailto:office.cambodia@unido.org)

*Copyright © 2018 Biogas Project, All rights reserved.*

You are receiving this email because you are opted in our website and/or Facebook.

Want to change how you receive these emails?

You can [update your preferences](#) or [unsubscribe from this list](#)

